

UK

Notice of Allowability	Application No.	Applicant(s)	
	10/804,615	FISHER ET AL.	
	Examiner	Art Unit	
	DONNIE L. CROSLAND	2636	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communication filed 3-18-04 and 6-28-04.
2. ☒ The allowed claim(s) is/are 12-29.
3. ☒ The drawings filed on 18 March 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>6-17-04</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows:

SPECIFICATION

In the amendment to the specification dated 3-18-04, line 3, "pending" was changed to -now U.S. Patent 6,710,704-.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The primary reason for allowing this application is the specific recitation in claim 12 of a power delivery circuit for delivering a combined power and data signal to a network device and includes a mixer circuit combining the power supply signal and the data signal to generate the combined power and data signal and an isolation circuit electrically isolating the network device from the data input, power input and data/power input ports in the event of a specific predefined voltage signal being applied to one of the power input port, data input and data/power input ports.

Claim 16 recites a power delivery circuit for delivering a combined power and data signal to a network device and includes a mixer circuit combining the power supply signal and the data signal to generate the combined power and data signal; a mixer

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circuit combining the power supply signal and the data signal to generate the combined power and data signal; a filter circuit separating the power signal and data signal from the combined power and data signal and a current control circuit controlling a rate of change of a current of the power supply signal over time.

Claim 22 recites a power delivery circuit for delivering a combined power and data signal to a network device and includes a mixer circuit combining the power supply signal and the data signal to generate the combined power and data signal; and a current balancing circuit equalizing current flow on at least one wire pair of the network cable.

Claim 26 recites a method of delivering power to a network device over a network cable comprising providing a power supply signal; providing a data signal; reducing electromagnetic interference with the network device from the combined power and data signal; and equalizing current flow on at least one wire pair of the network cable.

Claim 29 recites a power delivery circuit for delivering a combined power and data signal to a network device, including a mixer circuit combining the power supply signal and the data signal to generate the combined power and data signal; an isolation circuit electrically isolating the network device from the data input, power input and data/power input ports in the event of a specific predefined voltage signal being applied to one of the power input port, data input and data/power input ports; a high frequency suppression circuit reducing electromagnetic interference from the combined power and


data signal with the network device; and a current balancing circuit equalizing current flow on at least one wire pair of the network cable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONNIE L. CROSLAND whose telephone number is 571-272-2980. The examiner can normally be reached on Mon-Fri, 9:30a-6:00p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFERY HOFSSASS can be reached on 571-272-2981. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



DONNIE L. CROSLAND
Primary Examiner
Art Unit 2636

Dlc ✓
8-18-05